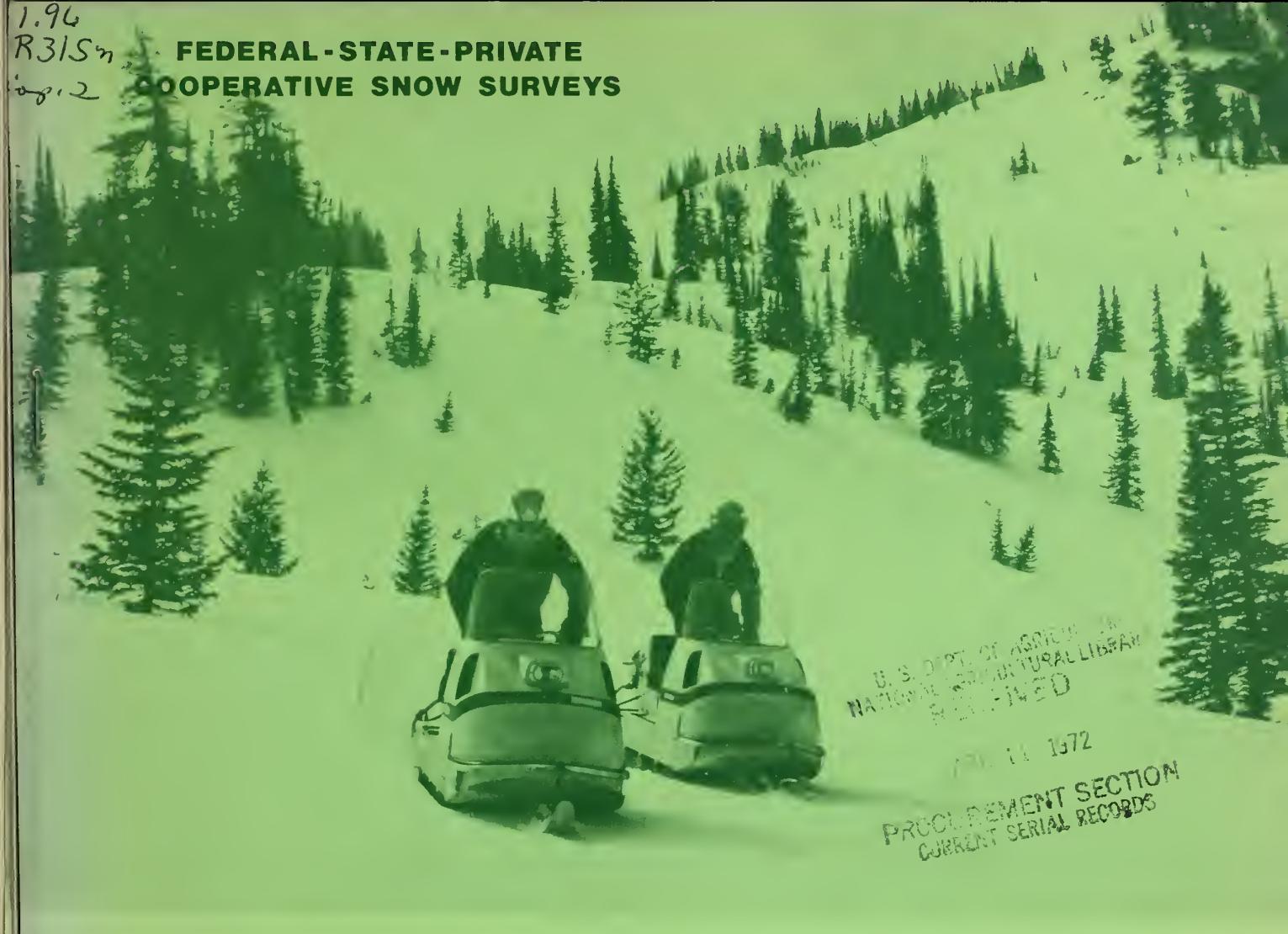


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1972

FEDERAL-STATE-PRIVATE
COOPERATIVE SNOW SURVEYS



WATER SUPPLY OUTLOOK FOR ARIZONA

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

SALT RIVER VALLEY WATER USERS ASSOCIATION

and

ARIZONA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF
APR. 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR ARIZONA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

MARION E. STRONG
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PHOENIX, ARIZONA

In Cooperation with

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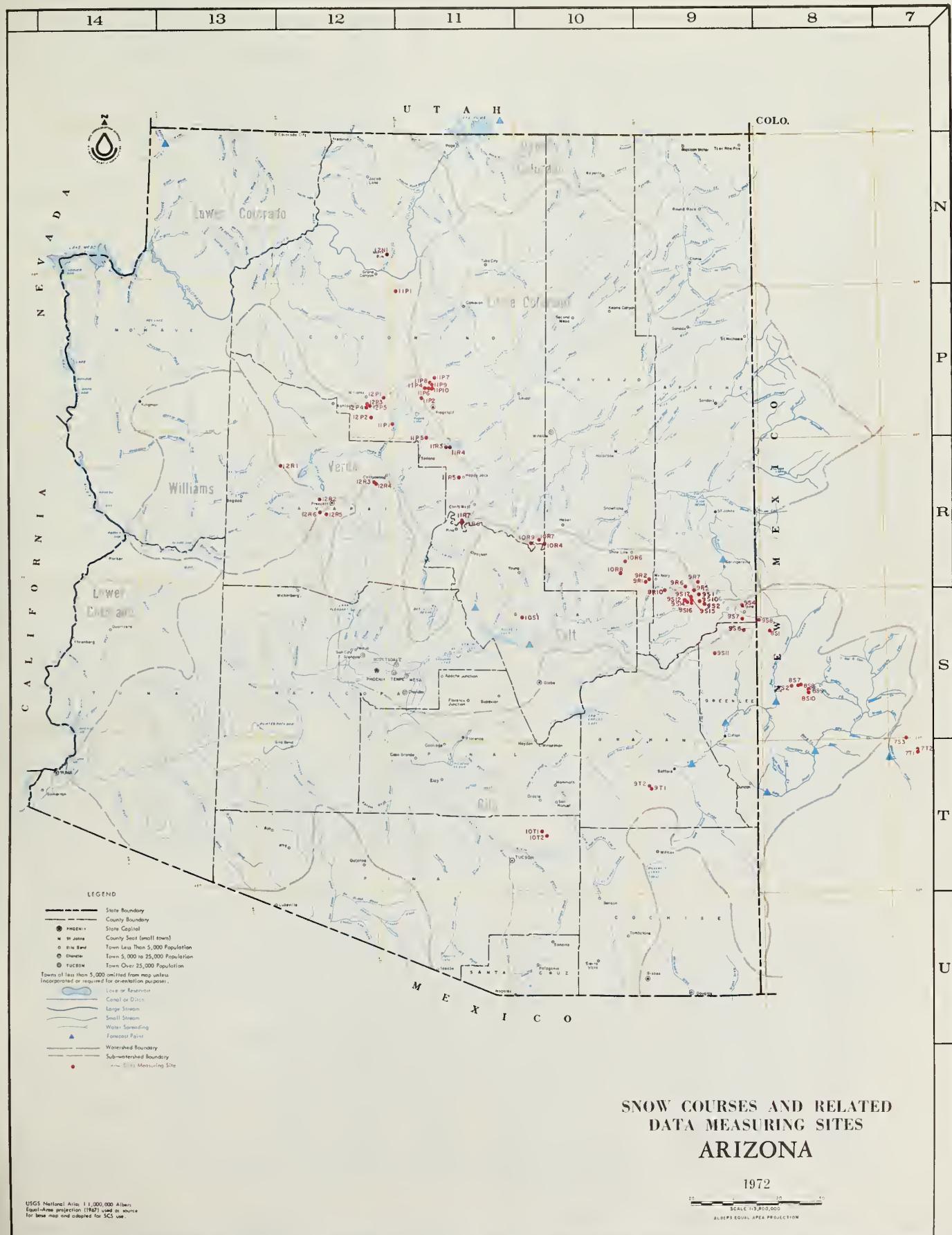
FLOYD N. SMITH
PRESIDENT
SALT RIVER VALLEY WATER
USERS ASSOCIATION

Report prepared by

RICHARD W. ENZ, Snow Survey Supervisor

SOIL CONSERVATION SERVICE
ROOM 6029 FEDERAL BUILDING
PHOENIX, ARIZONA 85025





INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

<u>NUMBER</u>	<u>NAME</u>	<u>SEC.</u>	<u>TWP.</u>	<u>RGE.</u>	<u>ELEV.</u>	<u>DRAINAGE</u>	<u>OBSERVER</u>
11P10-A	Agassiz	32	23N	7E	11200	Little Colorado	SCS-USBR
11R7	Baker Butte #2	9	12N	9E	7700	Verde	SCS
11R6	Baker Butte (p)	4	12N	9E	7300	Verde	SCS
9S1-A	Baldy (p)	28	7N	27E	9125	Little Colorado	SCS
9S15	Baldy #2	12	6N	26E	9750	Little Colorado	SCS-FS
9S16	Baldy #3	13	6N	26E	10950	Little Colorado	SCS-FS
10T1	Bear Wallow	6	12S	16E	8100	Gila	FS
9S6	Beaver Head	13	4N	30E	8000	San Francisco	Pvt-SRP
12P5	Bill Williams Intermediate	17	21N	2E	8550	Cataract	FS
12P4	Bill Williams Summit	17	21N	2E	8950	Verde	FS
9S10-*	Black River Divide	10	6N	27E	9400	Salt	SCS
12N1	Bright Angel	34	33N	3E	8400	Bright Angel Creek	NPS
12R1	Camp Wood	3	16N	6W	5700	Verde	FS
10R7-M	Canyon Creek #2	18	11N	15E	7500	Little Colorado	SCS
10R9	Canyon Point (p)	28	11N	14E	7600	Salt	SCS
12P1-M	Chalender	27	22N	3E	7100	Verde	FS
9R7	Cheese Springs	28	8N	27E	8600	Little Colorado	SCS
12R6	Copper Basin Divide (p)	23	13N	3W	6720	Verde	SCS
10R8-*	Corduroy Creek	4	8N	21E	6000	Salt	SCS
9S7	Coronado Trail	26	5N	30E	8000	San Francisco	FS
9T2-A	Crazy Horse	34	8S	24E	10200	Gila	FS
7T1	Emory Pass #1	16	16S	9W**	7800	Mimbres	SCS
7T2	Emory Pass #2	16	16S	9W**	7800	Mimbres	SCS
10R6	Forest Dale	2	9N	21E	6430	Salt	BIA
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado	SCS
11P2	Ft. Valley (p)	22	22N	6E	7350	Little Colorado	FS
8S1-M	Frisco Divide	31	6S	20W**	8000	San Francisco	FS
12R4	Gaddes Canyon	11	15N	2E	7600	Verde	Pvt
11P1	Grand Canyon	21	30N	4E	7500	Hance Creek	NPS
9S11	Hannagan Meadows (p)	19	3N	29E	9090	San Francisco	Pvt
11R5	Happy Jack	30	16N	9E	7630	Verde	FS
9R10	Hawley Lake	13	7N	24E	8300	Salt	BIA
10R4	Heber (p)	28	11N	15E	7600	Little Colorado	SCS
9T1-A	High Peak	34	8S	24E	10500	Gila	FS
8S9-A	Hummingbird	19	11S	17W**	10550	Gila	Pvt-SCS
11P9	Inner Basin #1 (p)	28	23N	7E	10000	Little Colorado	SCS-USBR
11P8	Inner Basin #2 (p)	28	23N	7E	9750	Little Colorado	SCS-USBR
11P7	Inner Basin #3	3	23N	7E	10250	Little Colorado	SCS-USBR
12R2	Iron Springs	22	14N	3W	6200	Bill Williams	SCS
9S2-A	Maverick Fork (p)	13	6N	27E	9150	Salt	SCS
7S3-A	McKnight Cabin	10	15S	10W**	9300	Mimbres	Pvt-SCS
9R2-M	McNary	23	8N	23E	72000	Salt	BIA
9R1	Milk Ranch	33	8N	23E	7000	Salt	BIA
12R3	Mingus Mountain	3	15N	2E	7100	Verde	Pvt
8S2	Mogollon	2	11S	19W**	7000	San Francisco	Pvt
11R4	Mormon Lake	13	18N	8E	7350	Little Colorado	SCS
11R3-M-A	Mormon Mountain (p)	14	18N	8E	7500	Verde	SCS
9S12-A	Mt. Ord	4	6N	26E	11200	Salt	SRP-SCS
11P5-M	Newman Park	25	19N	6E	6750	Verde	SCS
9S4	Nutrioso	23	6N	30E	8500	San Francisco	FS
8S7	Redstone Trail	5	11S	18W**	8600	San Francisco	Pvt
10T2	Rose Canyon	15	12S	16E	7300	Gila	FS
8S8	Silver Creek Divide	4	11S	18W**	9000	San Francisco	Pvt
9S14-A	Smith Cienega	10	6N	26E	10050	Salt	SRP-SCS
11P4	Snow Bowl #1 (p)	36	23N	6E	10260	Verde	FS
11P6	Snow Bowl #2	31	23N	7E	11000	Verde	FS
9S8	State Line	6	6S	21W**	8000	San Francisco	FS
9S17	Sunrise Summit	36	7N	26E	10600	Salt	FAIR
12P2	White Horse Lake Jct.	2	20N	2E	7180	Verde	FS
12R5	White Spar	19	13N	2W	6000	Verde	SCS
8S10-A	Whitewater	19	11S	17W**	10750	Gila	Pvt-SCS
12P3	Williams Ski Run	9	21N	2E	7720	Cataract	FS
9R6	Wilson Lake (p)	4	7N	26E	9000	Salt	SCS
10S1	Workman Creek	33	6N	14E	6900	Salt	FS

M SOIL MOISTURE STA.
(p) STORAGE GAGE

A AERIAL SNOW DEPTH MARKER

* SOIL MOISTURE STA. ONLY
** NM PRINCIPAL MERIDIAN

ARIZONA WATER SUPPLY OUTLOOK

APRIL 1, 1972

Spring runoff will be much below normal again this year. With near normal water supplies in storage, however, shortages will be confined to areas depending upon direct river diversions.

SNOW COVER

Snow remains only on north slopes at elevations above 10,000 ft. on the San Francisco Peaks, White Mountains and Gila Mountains. In these areas the three to four feet of snow is considerably greater than that present last year at this time. On sunny exposures and at lower elevations, however, the snow is gone completely. The absence of storms since December and the much above normal temperature during March is responsible for this unusual condition.

PRECIPITATION

With no precipitation for three months, this is by far the driest January-March period on record. Even with the good storms of December, precipitation since November 1 has been only 38% of average on the Verde, 50% on the Salt, and 60% on the Gila Watersheds. The probability of receiving good precipitation diminishes daily now as we approach the dry season of mid-April through June.

SOIL MOISTURE

Surface soils are drying as temperatures increase and growing plants use more moisture. Sub-soil moisture is still high and good plant growth could take place if moderate rains occur soon. If present conditions continue, however, ranges will be very poor until the summer rains start.

RESERVOIR STORAGE

Water in storage has dropped slightly below normal due to increased use and low inflow. The Salt River Project Reservoirs containing 994,800 acre-feet are slightly below half full and 12% below average. Lake Pleasant contains slightly above average, while San Carlos and Lyman Reservoirs hold slightly below average amounts.

STREAMFLOW AND WATER SUPPLY

March streamflow of the Verde River was the lowest since 1904. March runoff on the Salt and Gila was also below average, but not as low as last year. Runoff forecasts for the April-May period range from 27% of average on the Salt River Project streams to 36% on the Gila.

Water supplies will be adequate this year in all areas served by storage facilities, but reservoirs will be below last year by the end of the season. The Upper Gila Valley will again be short of water with extensive pumping required there.

If present conditions continue, ranges will be in poor condition and fire danger will be critical until the summer rains begin.



STREAMFLOW FORECASTS

ABOUT APRIL 1,
1972

BASIN STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	THousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET
			Last Year	Average +
<u>SALT RIVER DRAINAGE</u>				
Salt near Roosevelt	31.0	25	Apr-May	27.1
Tonto Creek near Roosevelt	1.2	16	Apr-May	1.3
Verde River above Horseshoe	17.0	34	Apr-May	21.0
<u>GILA RIVER DRAINAGE</u>				
Gila River at Calva	3.3	21	Apr-May	2.4
Gila River near Gila	9.5	57	Apr-May	5.3
Gila River near Solomon	12.5	36	Apr-May	6.9
Gila River near Virden	6.0	34	Apr-May	3.9
Frisco River at Clifton	5.5	29	Apr-May	4.5
Frisco River at Glenwood	2.5	31	Apr-May	1.9
<u>MIMBRES RIVER DRAINAGE</u>				
Mimbres River near Mimbres	0.4	31	Apr-May	0.3
<u>COLORADO RIVER DRAINAGE</u>				
Little Colo. River above Lyman Dam	0.9	15	Apr-June	0.6
Colorado River -- Lake Powell Inflow *	DELAYED		Apr-July	8378.0
<u>VIRGIN RIVER DRAINAGE</u>				
Virgin River nr. Littlefield	15.0	45	Apr-June	17.4
<u>GRANITE CREEK DRAINAGE</u>				
Granite Creek	0.1	---	Apr-May	---
Willow Creek	0	---	Apr-May	---
+ Based on the 15-year period, 1953-67				
* Forecast issued by Soil Conservation Service, Salt Lake City, Utah				



1972

SPRING RUNOFF

STREAM AND STATION	Measured	<u>1/</u>	Forecast	Total	January thru May	
	Runoff Jan-March	Runoff April-May	1972	15-Year Average	% of Average	
Salt River at Intake	88.0	31	119.0	280.9	42	
Verde River above Horseshoe	49.5	17	66.5	171.9	39	
Tonto Creek above Roosevelt	5.1	1.2	6.3	42.6	15	
Gila River near Virden	30.5	6.0	36.5	59.3	62	
Gila River near Solomon	45.8	12.5	58.3	119.6	49	
Frisco River at Clifton	20.5	5.5	26.0	59.8	43	
Little Colorado Jan.-June	3.6 *	0.9	4.5	9.0	50	

1/ Provisional runoff obtained from USGS

* Partially estimated



RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

ABOUT APRIL 1, 1972

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
<u>GILA RIVER DRAINAGE</u>					
Agua Fria	Lake Pleasant	157.6	52.2	71.9	44.1
Granite	Watson Lake	4.7	3.2	1.9	----
Granite	Willow Creek	6.1	1.5	1.1	----
Gila	San Carlos	948.6	99.7	0.2	118.2
Verde (2)	Bartlett & Horseshoe	317.7	60.1	172.8	131.0
Salt (4)	Roosevelt, Apache, Canyon & Saguaro	1755.0	934.7	863.0	1002.5
<u>COLORADO RIVER DRAINAGE</u>					
Colorado	Lake Havasu	619.4	568.2	560.5	554.5
Colorado	Lake Mohave	1810.0	1686.5	1666.0	1695.9
Colorado	Lake Mead	26159.0	17174.0	16289.0	16072.4
Colorado	Lake Powell	25002.0	13449.0	12434.0	-----
Little Colorado	Lyman	30.6	9.8	11.5	10.8
Little Colorado	Show Low Lake	5.1	0.8	0.3	2.3*

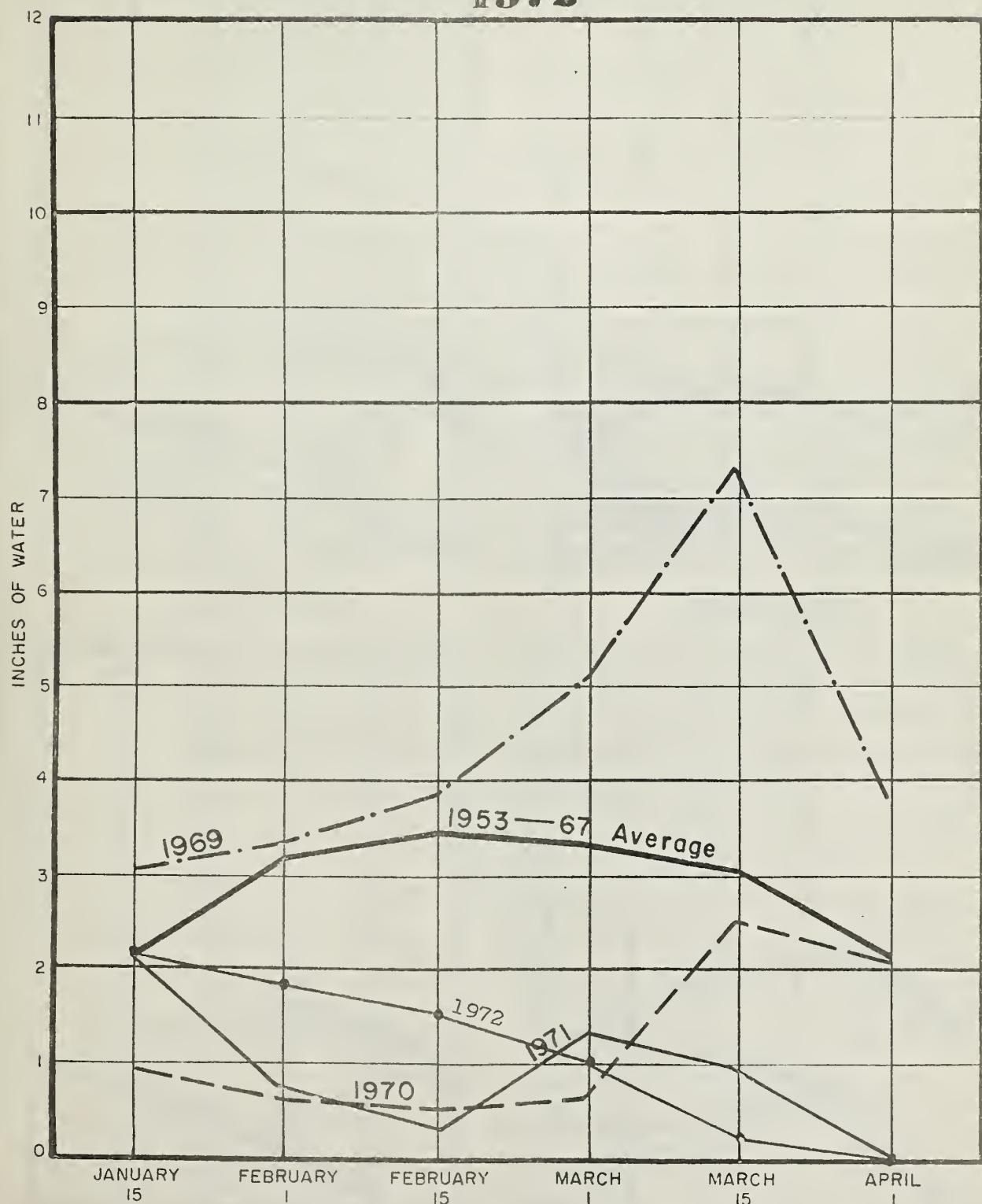
+ Based on 15-year period, 1953-67

* Average is for less than 15 years of record



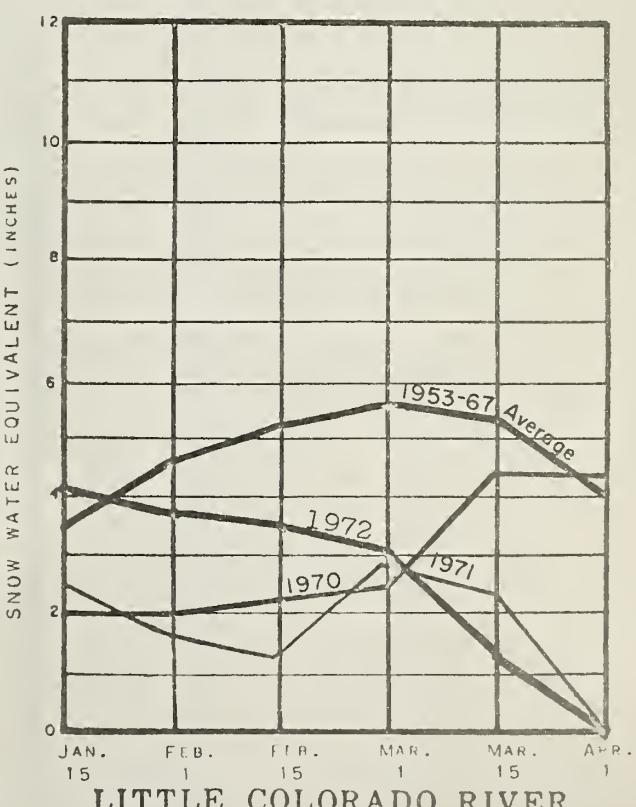
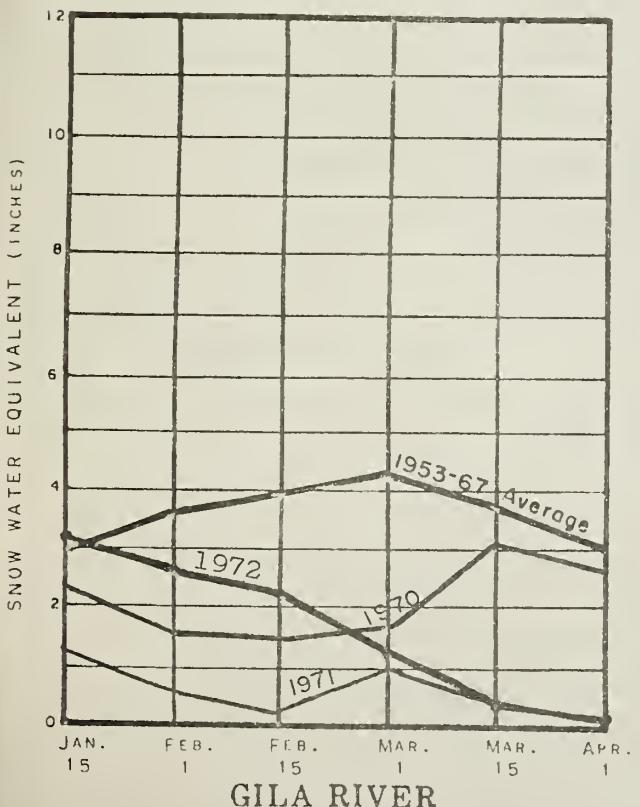
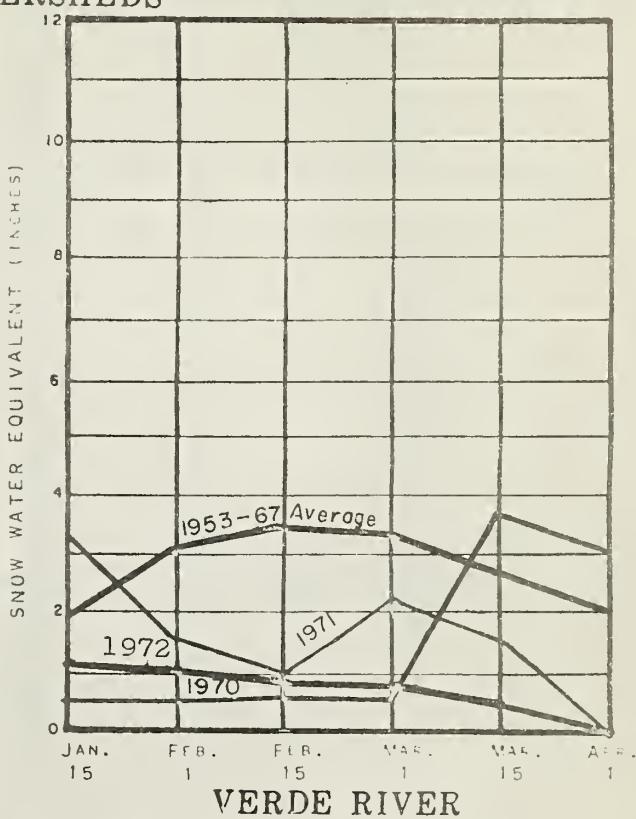
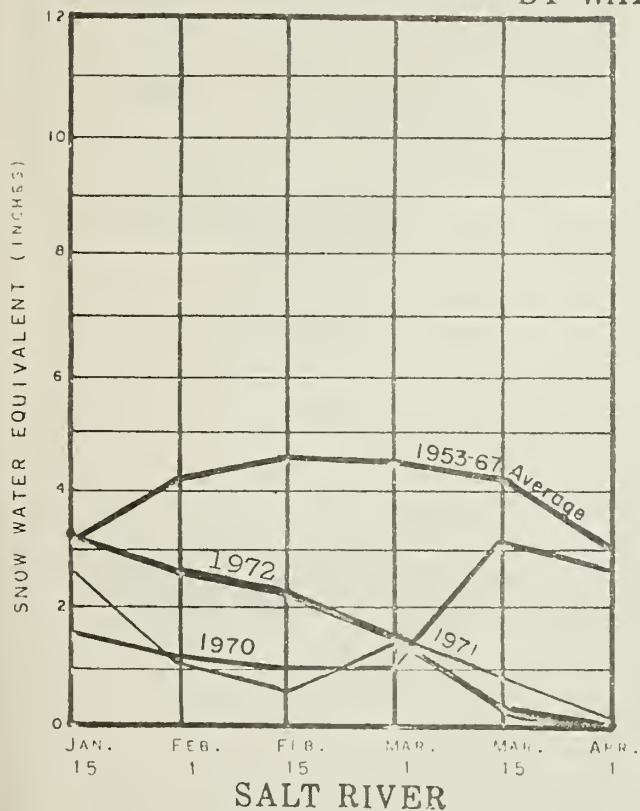
RELATIVE SNOW WATER ACCUMULATION ARIZONA

1972



This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.

1972
ARIZONA SNOW COVER
BY WATERSHEDS



SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

ABOUT APRIL 1, 1972

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
Gila	10	160	5
Salt	10	0	0
Verde	10	8	25
Little Colorado	5	0	0

With zero or nearly zero snow cover, these figures are not significant.



WATER SUPPLY INVENTORY
SALT RIVER VALLEY SYSTEM
APRIL 1, 1972

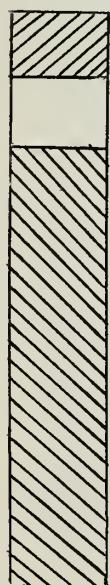
ACRE-FEET

3,000,000

2,500,000

2,000,000

AVERAGE SUPPLY ON
APRIL 1



1,500,000

1,000,000

500,000

0

ANTICIPATED 1972 SUPPLY



* Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff



SNOW

ABOUT APRIL 1, 1972

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<u>GILA RIVER</u>						
Bear Wallow	8100	3/31	0	0.0	0.0	2.0
Beaver Head	8000	3/31	0	0.0	0.0	1.0
Coronado Trail	8000	3/31	0	0.0	0.0	0.2
Crazy Horse (A)	10200	---	---	---	---	---
Emory Pass #1 *	7800	3/31	0	0.0	0.0	---
Emory Pass #2 *	7800	3/31	0	0.0	0.0	---
Frisco Divide	8000	3/31	0	0.0	0.0	---
Hannagan Meadows *	9090	3/31	0	0.0	0.0	0.4
High Peak (A)	10500	---	---	---	---	---
Hummingbird (A)	10550	3/31	11	4.0	0.0	18.5**
McKnight Cabin * (A)	9300	3/31	0	0.0	0.0	---
Mogollon	7000	3/31	0	0.0	0.0	0.0
Nutrioso	8500	3/31	0	0.0	0.0	0.2
Redstone Trail	8600	4/1	0	0.0	0.0	6.8**
Rose Canyon	7300	3/31	0	0.0	0.0	0.4
Silver Creek Divide	9000	4/1	3	1.6	1.0	12.2**
State Line	8000	3/31	0	0.0	0.0	0.2
Whitewater (A)	10750	3/31	34	14.4	8.2	22.2**
<u>SALT RIVER</u>						
Baldy *	9125	3/31	0	0.0	0.0	5.3
Beaver Head	8000	3/31	0	0.0	0.0	1.0
Canyon Creek	7500	4/1	0	0.0	0.0	1.0**
Canyon Point	7600	4/1	0	0.0	0.0	0.9**
Coronado Trail	8000	3/31	0	0.0	0.0	0.2
Forest Dale	6430	3/31	0	0.0	0.0	0.0
Ft. Apache	9160	3/31	0	0.0	0.0	0.0
Hannagan Meadows	9090	3/31	0	0.0	0.0	6.1
Hawley Lake	8300	4/1	0	0.0	0.0	7.8**
Heber	7600	4/1	0	0.0	0.0	3.1**
Maverick Fork	9050	3/31	0	0.0	0.0	6.8
McNary	7200	3/31	0	0.0	0.0	0.3
Milk Ranch	7000	3/31	0	0.0	0.0	0.1
Mt. Ord (A)	11000	3/23	50	21.4	12.9	22.5**
Nutrioso *	8500	3/31	0	0.0	0.0	0.2
Smith Cienega (A)	9850	3/23	32	13.6	9.6	16.8**
Sunrise Summit	10600	3/25	24	9.8	---	---
Wilson Lake	9000	3/31	0	0.0	0.7	7.3**
Workman Creek	6900	3/28	0	0.0	0.0	1.5
Baldy #2	9750	3/24	17	6.7	7.4	15.5
Baldy #3	10950	3/24	37	16.9	12.2	22.7
<u>BILL WILLIAMS RIVER</u>						
Camp Wood *	5700	3/31	0	0.0	0.0	0.1
Copper Basin Divide	6720	3/31	0	0.0	0.0	0.0**
Iron Springs	6200	3/31	0	0.0	0.0	0.0
+ 1953-67 15-year period. (*) Adjacent drainage. (**) 1953-67 Adjusted average. (A) Aerial observation. Water content estimated.						



SNOW ABOUT APRIL 1, 1972

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
NAME	Elevation		Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
VERDE RIVER						
Baker Butte	7300	4/1	0	0.0	0.0	1.6**
Baker Butte #2	7700	4/1	0	0.0	---	---
Camp Wood	5700	3/31	0	0.0	0.0	0.1
Chalender	7100	3/31	0	0.0	0.0	0.7
Copper Basin Divide	6720	3/31	0	0.0	0.0	0.0**
Fort Valley	7350	3/31	0	0.0	0.0	0.7
Gaddes Canyon	7600	3/31	0	0.0	0.0	2.6**
Happy Jack	7630	3/31	0	0.0	0.0	1.2
Iron Springs *	6200	3/31	0	0.0	0.0	0.0
Mingus Mountain	7100	4/1	0	0.0	0.0	0.1
Mormon Lake *	7350	4/1	0	0.0	0.0	1.6
Mormon Mountain	7500	4/1	0	0.0	0.0	2.5
Newman Park	6750	4/1	0	0.0	0.0	0.5**
Snow Bowl #1	10260	3/31	0	0.0	5.7	9.0**
Snow Bowl #2	11000	3/31	0	0.0	8.6	14.8**
White Horse Lake Jct.	7150	3/31	0	0.0	0.0	---
White Spar	6000	3/31	0	0.0	0.0	0.0**
LOWER COLORADO RIVER						
Bill Wms. Intermediate	8550	3/31	0	0.0	0.0	---
Bill Williams Summit	8950	3/31	0	0.0	4.0	---
Bright Angel	8400	3/31	0	0.0	---	---
Chalender *	7100	3/31	0	0.0	0.0	0.7
Fort Valley	7350	3/31	0	0.0	0.0	0.7
Grand Canyon	7500	3/31	0	0.0	0.0	0.4
Williams Ski Run	7720	3/31	0	0.0	0.0	---
LITTLE COLORADO RIVER						
Agassiz	11200	3/30	31	11.6	11.8	---
Baldy	9125	3/31	0	0.0	0.0	5.3
Canyon Creek	7500	4/1	0	0.0	0.0	1.0**
Canyon Point	7600	4/1	0	0.0	0.0	0.9**
Cheese Springs	8600	3/31	0	0.0	0.0	---
Forest Dale	6430	3/31	0	0.0	0.0	0.0
Ft. Apache	9160	3/31	0	0.0	0.0	6.1
Fort Valley	7350	3/31	0	0.0	0.0	0.7
Happy Jack *	7630	3/31	0	0.0	0.0	1.2
Heber	7600	4/1	0	0.0	0.0	1.1
Inner Basin #1	10100	3/30	12	4.8	5.6	---
Inner Basin #2	9750	3/30	1	0.2	0.5	---
Inner Basin #3	10250	3/30	T	0.1	0.6	---
McNary	7200	3/31	0	0.0	0.0	0.3
Mormon Lake	7350	4/1	0	0.0	0.0	1.6
Mormon Mountain	7500	4/1	0	0.0	0.0	2.5
Nutrioso	8500	3/31	0	0.0	0.0	0.2
Snow Bowl #1	10260	3/31	3	1.5	5.7	9.0**
Snow Bowl #2	11000	3/31	34	12.8	8.6	14.8**
Wilson Lake *	9000	3/31	0	0.0	0.7	7.3**
Baldy #2	9750	3/24	17	6.7	7.4	15.5
Baldy #3	10950	3/24	37	16.9	12.6	22.7

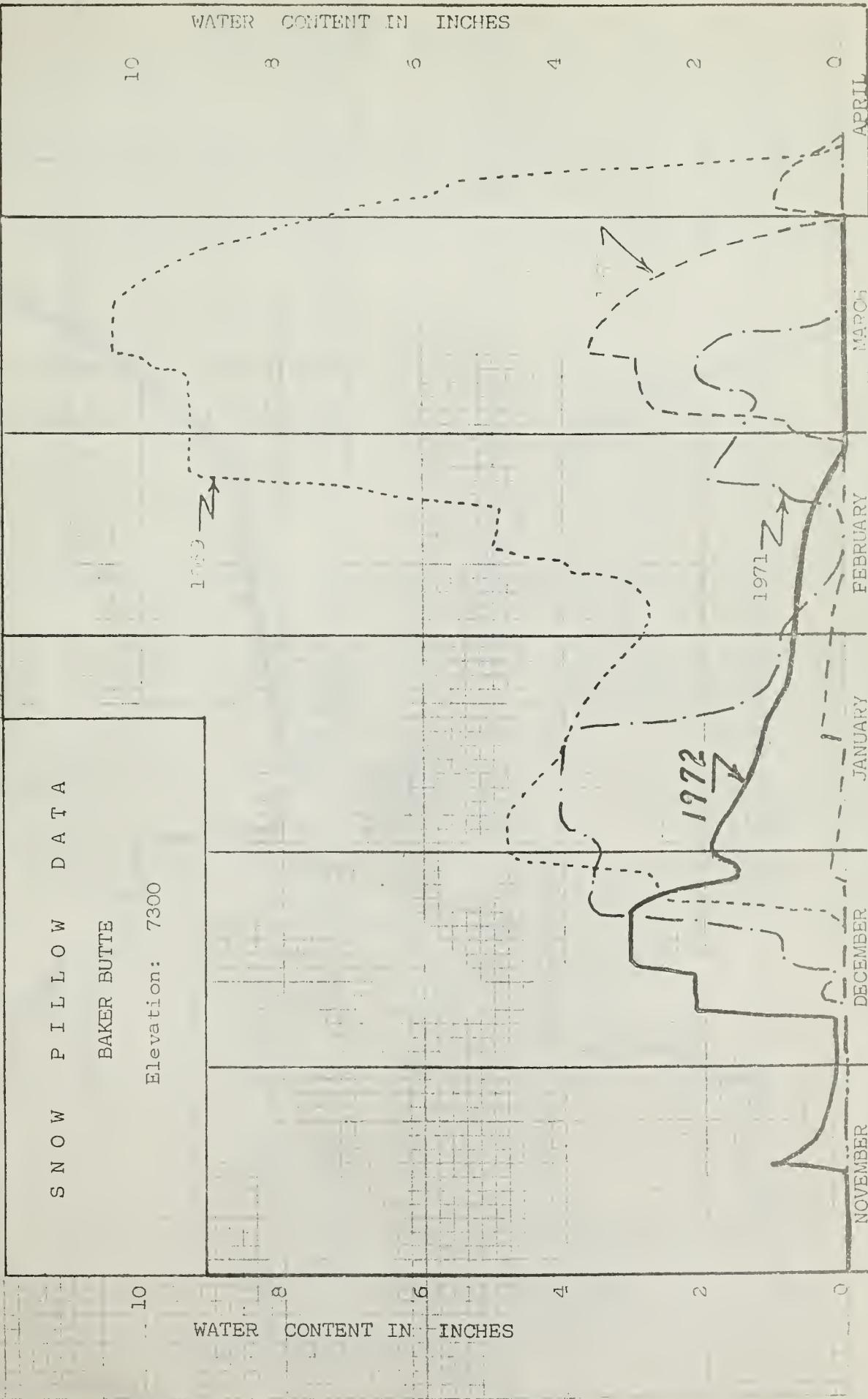
+ 1953-67 15-year period. (*) Adjacent drainage.

Adjusted average. (A) Aerial observation. Water content estimated.



SNOW 1972 ADDITIONS & CORRECTIONS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average +
<u>ADDITIONS</u>						
Snow Bowl #1	10260	3/14	11	4.0		
Snow Bowl #2	11600	3/14	37	12.9		
<u>CORRECTIONS</u>						
Agassiz	11200	2/1	50	14.0		
Baldy	9125	1/13	18	4.9		
Cheese Springs	8600	1/13	17	4.6		
Doyle Saddle	10900	2/1	60	14.8		
Ft. Apache	9160	1/14	20	5.6		
Hummingbird	10550	1/31	42	12.5		
Hummingbird	10550	2/14	41	11.8		
Hummingbird	10550	3/1	36	11.5		
Inner Basin #2	9750	3/1	17	6.8		
Maverick Fork	9050	1/31	18	5.6		
Smith Cienega	9850	1/14	50	17.6		
Snow Bowl #1	10260	1/31	23	7.0		
Snow Bowl #1	10260	2/16	22	7.0		
Wilson Lake	9000	1/14	27	7.6		

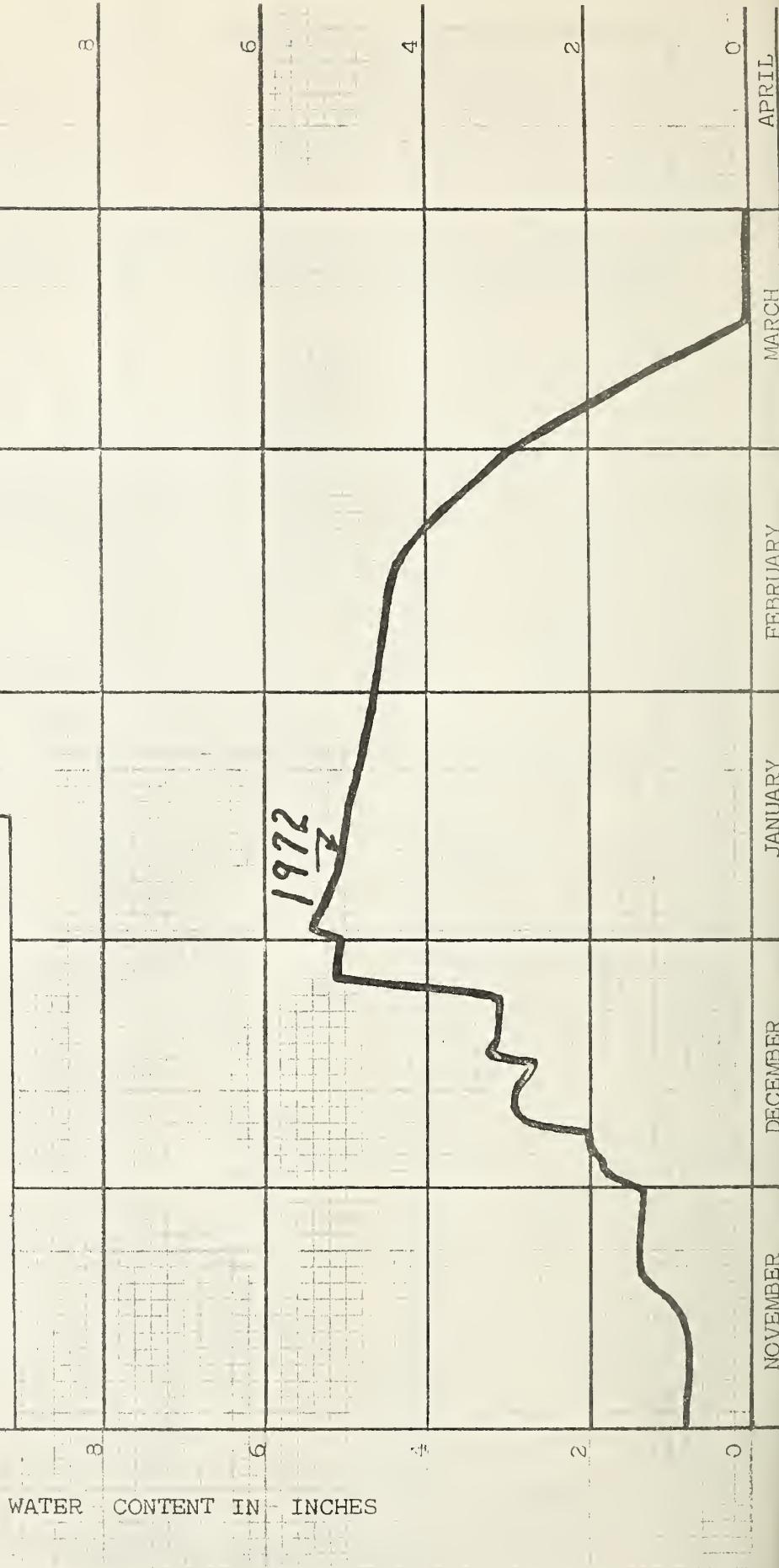


S N O W P I L L O W D A T A

BALDY

Elevation: 9125

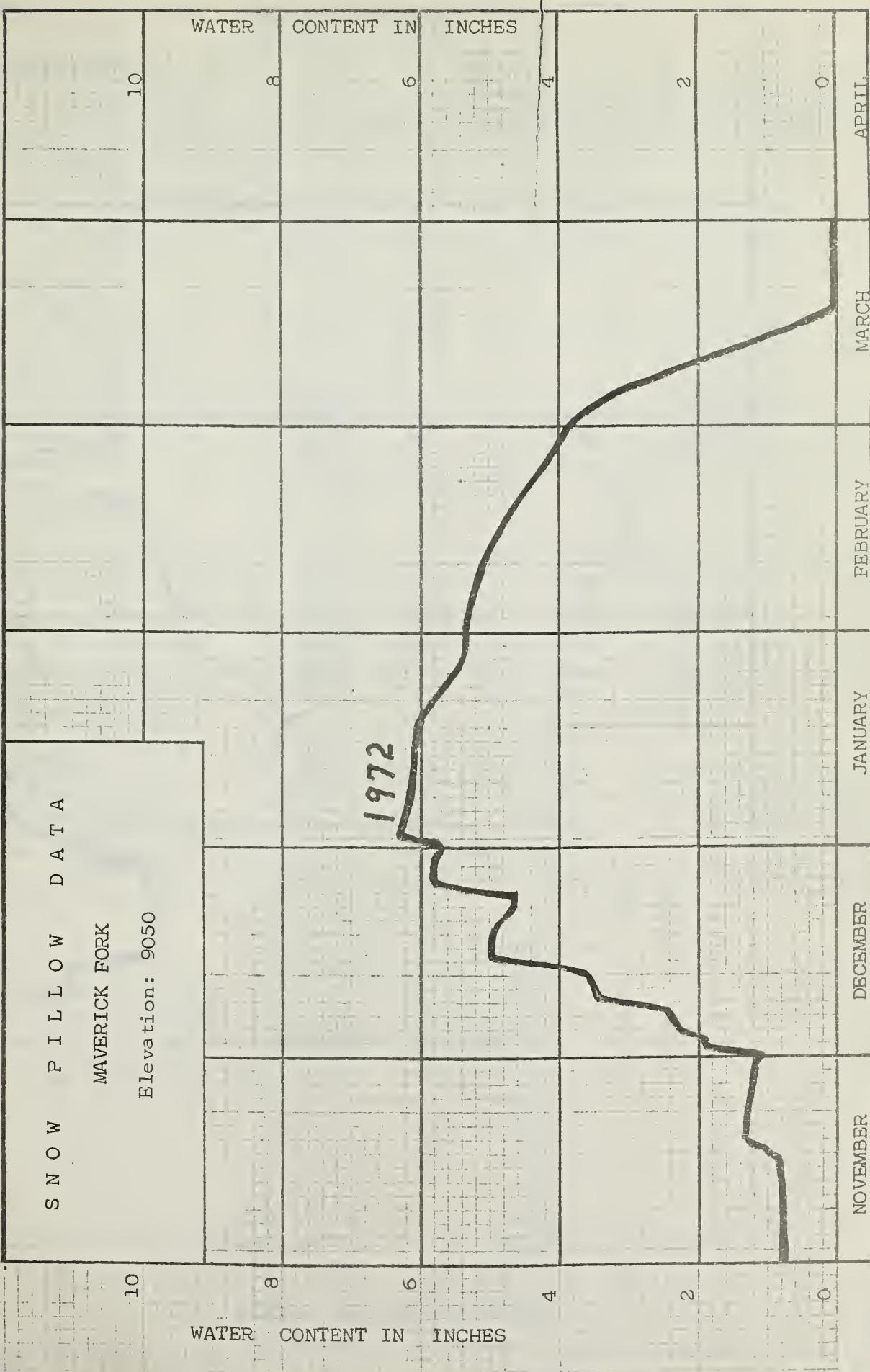
WATER CONTENT IN INCHES



S N O W P I L L O W D A T A

MAVERICK FORK

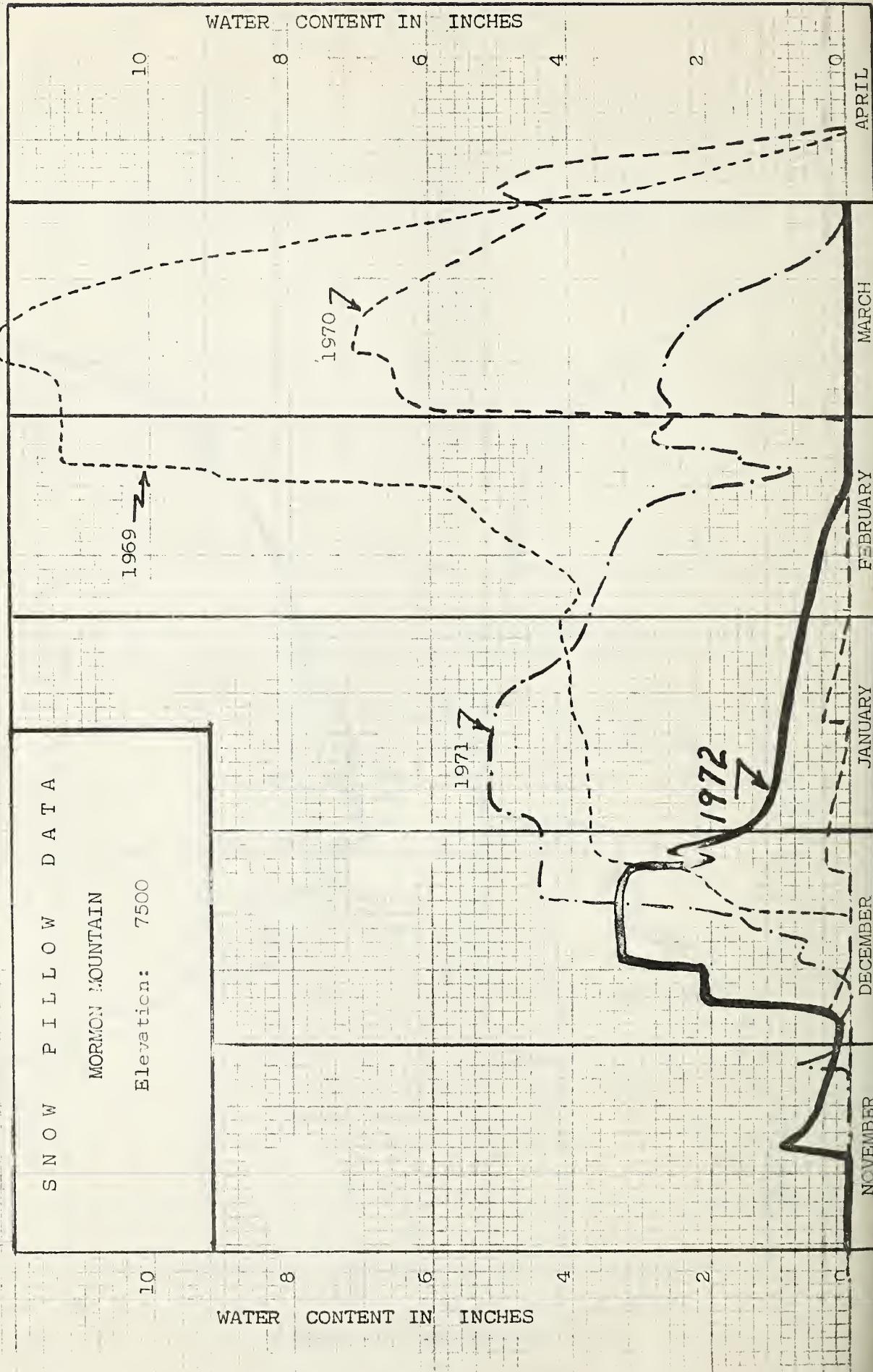
Elevation: 9050



SNOW PITHOW DATA

MORMON MOUNTAIN

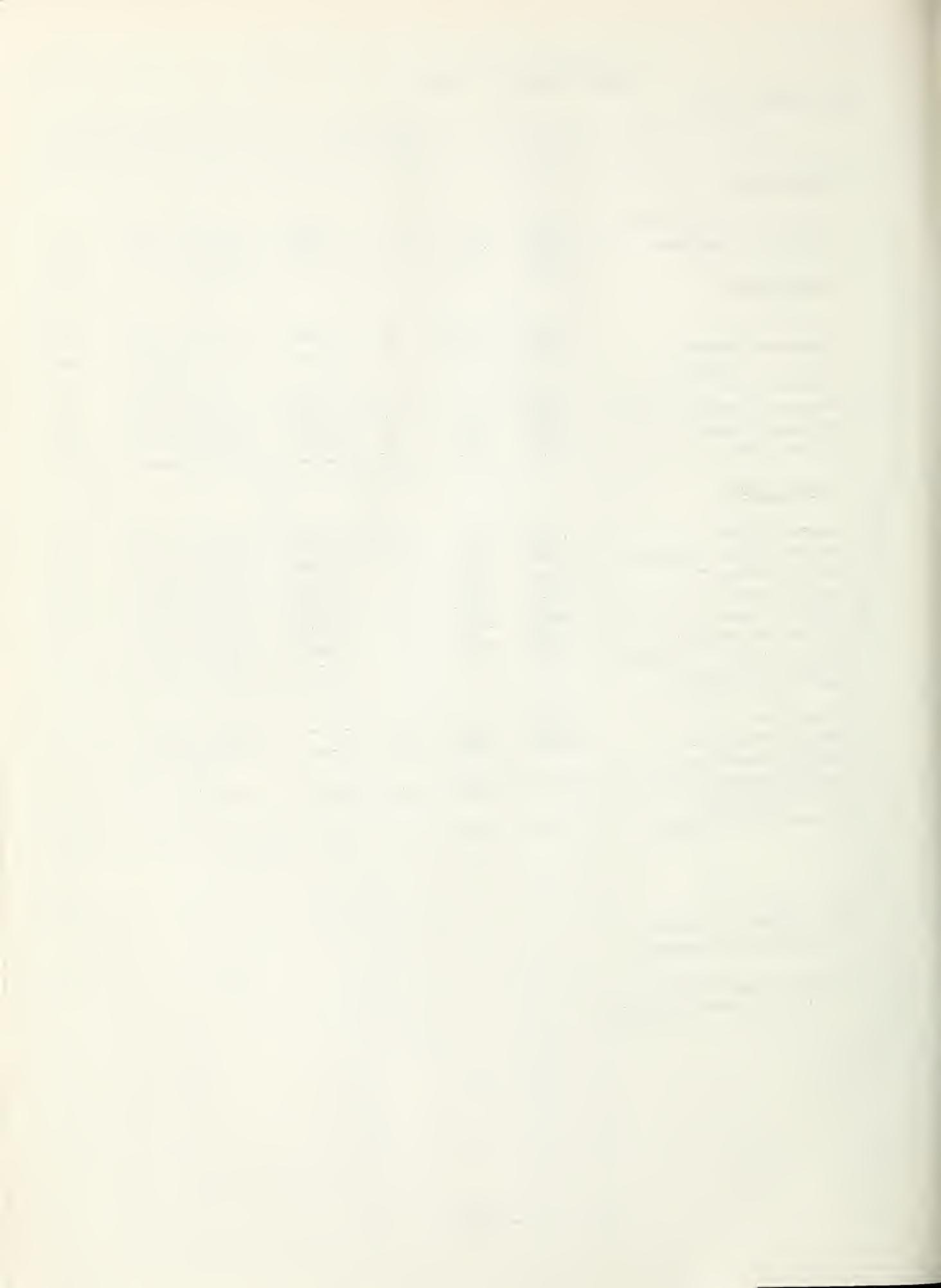
Elevation: 7500



ABOUT APRIL 1, 1972

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. NOV. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>GILA RIVER</u>							
Silver Creek Divide	9000	4/1	.40	2.60*	9.46	13.42*	70
Hannagan Meadows	9030	3/31	0	3.14*	6.52	13.24*	49
Frisco Divide	8000	3/30	.10	---	3.91	---	---
<u>SALT RIVER</u>							
Canyon Point	7600	3/31	.05	3.94*	6.67	17.13*	39
Hannagan Meadows	9030	3/31	0	3.14*	6.52	13.24*	49
Little Wildcat (Heber Snow Course)	7600	3/31	.10	3.15*	7.72	14.52*	53
Maverick Fork	9050	3/31	0	2.59*	7.23	12.52*	58
Workman Creek **	6970	3/28	0	3.38	4.25	17.26	25
Wilson Lake	9100	3/31	.05	----	7.07	----	----
<u>VERDE RIVER</u>							
Baker Butte	7300	4/1	.03	3.41*	6.65	17.45*	38
Copper Basin Divide	6720	3/31	0	2.22*	3.40	11.16*	30
Fort Valley **	7350	3/31	0	1.84	2.72	9.10	30
Happy Jack **	7480	3/31	0	2.42*	5.21	11.29*	46
Mingus Mountain	7660	3/31	0	2.04	2.65	9.79	27
Mormon Mountain	7500	4/1	0	2.49*	7.70	15.21*	50
White Horse Lake Jct.	7150	3/31	0	----	6.16	----	----
<u>LITTLE COLORADO</u>							
Inner Basin #1	9830	3/30	0	----	6.80	----	----
Inner Basin #2	10050	3/30	.15	----	8.35	----	----
Sheep Crossing (Baldy Snow Course)	9125	3/31	.12	2.34*	7.19	11.76*	61
Little Wildcat (Heber Snow Course)	7600	3/31	.10	3.15*	7.72	14.52*	53
+ 1953-67 Average							
* Adjusted Average							
** Data Supplied by U.S. Forest Service							
-							
- 14 -							



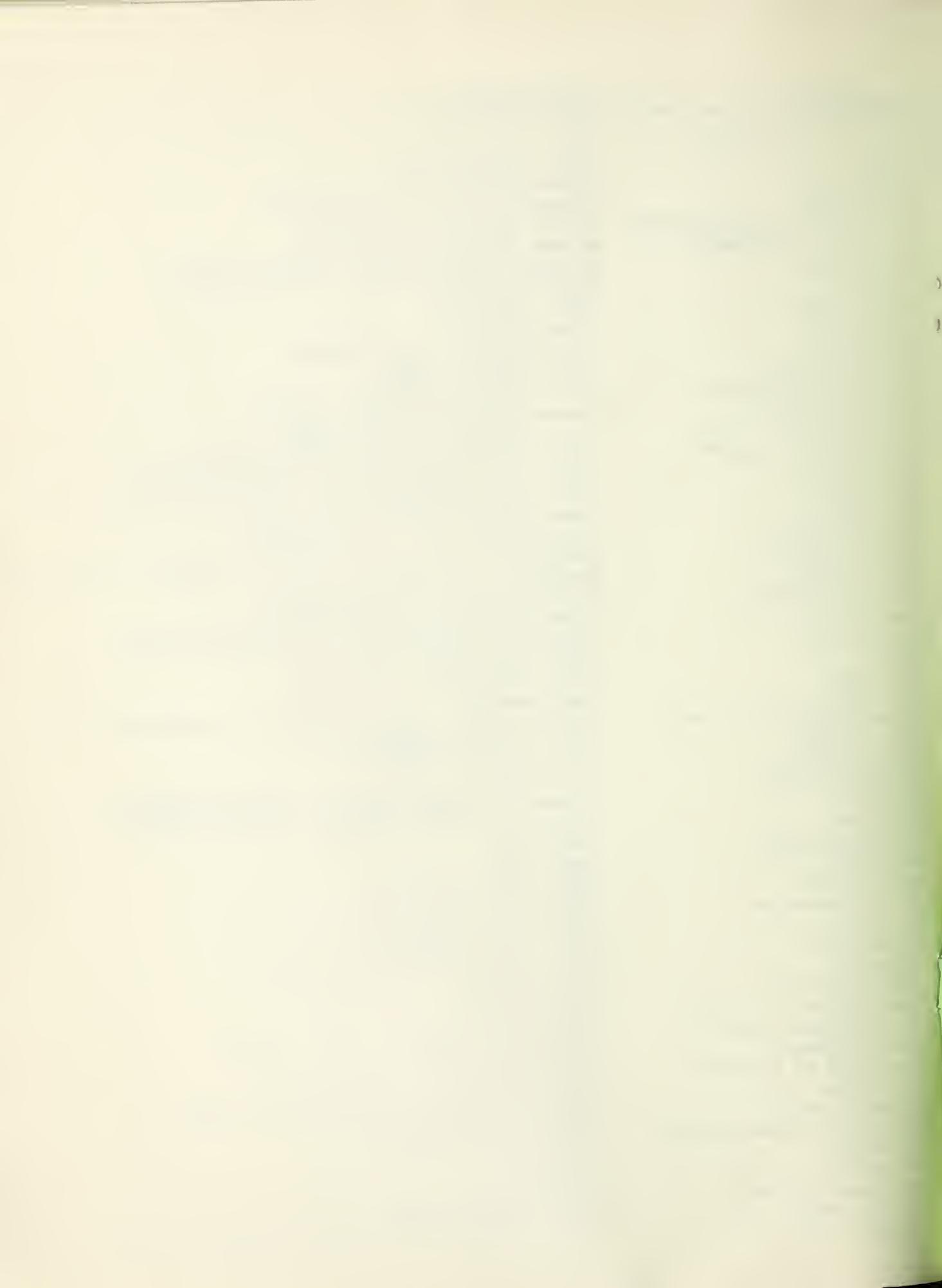
SOIL MOISTURE

ABOUT APRIL 1, 1972

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +
<u>GILA RIVER</u>							
Frisco Divide	8000	48	13.3	3/31	12.0	6.1	11.8
<u>SALT RIVER</u>							
Black River Divide	9100	48	16.8	3/31	17.9	18.1	16.3
Canyon Creek	7500	48	18.3	3/31	17.4	17.8	15.3
Corduroy Creek	6000	36	13.5	3/31	11.7	8.7	9.2
McNary	7200	48	16.3	3/31	17.9	14.6	15.4
<u>VERDE RIVER</u>							
Mormon Mountain	7500	48	16.1	4/1	17.8	17.8	16.6
Newman Park	6750	48	17.7	4/1	16.3	19.5	17.9
+ 1953-67 15-year average							
-15-							



<u>SNOW COURSE</u>	<u>SNOW SURVEYOR</u>
Baker Butte #1 & #2	SCS - Dick Enz
Baldy	SCS - Wallace Slade
Bear Wallow	Forest Service - Carl Sollers
Beaver Head	Forest Service - Gene McDorman
Bill Williams Intermediate	Forest Service - Mike King
Bill Williams Summit	Forest Service - Mike King
Bright Angel	National Park Service - Kenneth Hulick
Camp Wood	Forest Service - Walter G. Richardson
Canyon Creek	SCS - Dick Enz
Canyon Point	SCS - Dick Enz
Chalender	Forest Service - M. Freshour
Cheese Springs	SCS - Wallace Slade
Copper Basin Divide	SCS - William Valikai
Coronado Trail	Forest Service - John O. Maeder
Crazy Horse	Forest Service - Cecil Sims
Emory Pass #1 and #2	SCS - Jim Powell and Travis Stevenson
Forest Dale	Bureau of Indian Affairs - Raymond Endfield
Ft. Apache	SCS - Wallace Slade
Fort Valley	Rocky Mtn. Forest & Range Experiment Station
Frisco Divide	Forest Service - J. L. Lockwood
Gaddes Canyon	Earl Barto
Grand Canyon	National Park Service - David A. Strope & Jim Valder
Hannagan Meadows	Forest Service - Gene McDorman
Happy Jack	Forest Service - Warren Harris
Hawley Lake	Bureau of Indian Affairs - Raymond Endfield
Heber	SCS - Dick Enz
High Peak	Forest Service - Cecil Sims
Hummingbird	Ray Freeman
Inner Basin #1, #2, #3	SCS and USBR - Jack Jorgensen & Jay Roberts
Iron Springs	SCS - William Valikai
Maverick Fork	SCS - Wallace Slade
McKnight Cabin	Ray Freeman
McNary	Bureau of Indian Affairs - Raymond Endfield
Milk Ranch	Bureau of Indian Affairs - Raymond Endfield
Mingus Mountain	Earl Barto
Mogollon	James Lyon
Mormon Lake	SCS - Jack Jorgensen
Mormon Mountain	SCS - Jack Jorgensen
Mt. Ord	Salt River Project - Bill Warskow
Newman Park	SCS - Jack Jorgensen
Nutrioso	Forest Service - John O. Maeder
Redstone Trail	James Lyon
Rose Canyon	Forest Service - Carl Sollers
Silver Creek Divide	James Lyon
Smith Cienega	Salt River Project - Bill Warskow
Snow Bowl #1 and #2	Forest Service - Ky Porter
State Line	Forest Service - J. L. Lockwood
Sunrise Summit	FAIR - Ron Malfara (Sunrise Ski Area)
White Horse Lake Junction	Forest Service - Mike King
White Spar	SCS - William Valikai
Whitewater	Ray Freeman
Williams Ski Run	Forest Service - Mike King
Wilson Lake	SCS - Wallace Slade
Workman Creek	Rocky Mtn. Forest & Range Experiment Station



The Following Organizations Cooperate in the Arizona Snow Survey Work

FEDERAL

Department of Agriculture
Soil Conservation Service
Forest Service
 Apache Forest
 Coconino Forest
 Coronado Forest
 Gila Forest
 Kaibab Forest
 Prescott Forest
 Rocky Mountain Forest and Range Experiment Station
 Tonto Forest
Department Of Commerce
 NOAA, National Weather Service
Department of Interior
 Bureau of Reclamation
 Region III
 Geological Survey
 Arizona District
 Bureau of Indian Affairs
 Fort Apache Reservation
 San Carlos Irrigation Project
 National Park Service
 Grand Canyon National Park
Gila Water Commissioner
 Safford, Arizona

STATE

Arizona Game and Fish Department
Arizona State Parks Board
University of Arizona
 Arizona Agricultural Experiment Station
 Water Resource Research Center

IRRIGATION PROJECTS

Salt River Valley Water User's Association
 Phoenix, Arizona
San Carlos Irrigation and Drainage District
 Coolidge, Arizona

PRIVATE

Southwest Forest Industries, Inc.
 McNary, Arizona
Fort Apache Indian Reservation
 White Mountain Recreation Enterprises

Other organizations and individuals furnish valuable information for
the snow survey reports. Their cooperation is gratefully acknowledged.

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with the Snow Survey"*